**For the given database, solve the queries**.

**1) For the following database, identify primary key and foreign key where ever applicable and solve the given queries in SOL**

**Item (ino, description, unit price)**

**Supplier (sno, sname, address)**

**Supplied (sno, mo, sdate, qty, per\_unit\_discount)**

**1. Find suppler name for the suppliers who supply every item**

**2. Find distinct item names for the items supplied with total discount>500.**

**3. Pair of supplier names supplying same items on same dates**

**2)** **Write SQL statements for the following**

**Consider the following database-**

* **pilot (pid, pname)**
* **flight (fid, ftype, capacity)**
* **route (prd, fid, from\_city, to\_city)**

**i) List the details of flights having capacity more than 300.**

**ii) List the flights between "Surat' and 'Mumbai'.**

**iii) List the names of the pilots who fly from 'Pune'**

**iv) List the route on which, pilot named 'M. Kapoor flies**

**v) List the pilots whose names, starts with letter "A %” but does not end with letter**

**vi) List the name of pilots who fly 'boing 73 type of flights.**

**Write SQL statements**

**3)** **We have following:**

**Supplier (S#, sname, status, city)**

**Parts (P#, pname, color, weight, city)**

**SP(S#, P#, quantity)**

**Answer the following queries in SQL,**

**i) Find name of supplier for city= Delhi**

**ii)Find suppliers whose name start with ‘AB’**

**iii) Find all suppliers whose status is 10, 20, 30.**

**iv) Find total number of city of all suppliers**

**v)Find s# of supplier who supplies 'red' part.**

**vi)count number of supplier who supplies ‘red’ part**

**vii)Sort the supplier table by sname**

**4)** **We have following relations:**

* **Supplier (S#, sname, status, city),**
* **Parts (P#, pname, color, weight, city)**
* **SP(S#, P#, quantity)**

**Answer the following queries in SQL**

**i)Delete records in supplier table whose status is 40.**

**ii)Add one field in supplier table.**

**5)** **We have following relations**

* **Supplier (S#, sname, status, city)**
* **Parts (P#, pname, color, weight, city)**
* **SP(S# P#, quantity)**

**Answer the following queries in SQL**

1. **Find name of parts whose color is red**

**ii) Find parts name whose weight less than 10 kg**

**iii) Find all parts whose weight from 10 to 20 kg.**

**7)** **Consider following schema and was SQL for given statement,**

* **Student (rollno, name, branch)**
* **exam(rollno, subject code, obtained marks, paper code)**
* **papersipaper code, paper satter name, university)**

**i) Display name of student who got first class in subject 130703**

**ii) Display name of all student with their total mark**

**iii) Display list number of student in each university.**

**iv) Display list of student who has not given any exam.**

**8)** **We have following relation .**

* **EMP (empno, ename, jobtitle, manager no, iredate, sal, comm, dept no)**
* **DEPT (dept no, dname, loc)**

**i) The employees who are getting salary greater than 3000 for these persons belongings to the department 20**

**ii) Employees who are not getting any commission.**

**iii) Find how many job titles are available in employee table**

**iv) Display total salary spent for each job category**

**v) Display number of employees working in each department and their department name**

**vi) List ename whose manager is NULL**

**vii)List all employee names and their salaries, whose salary lies between 1500/- and 3500/- both inclusive**

**9)** **We have following relations.**

* **EMP (empno, ename, jobtitle, manager no, hiredate, sal, comm, dept no)**
* **DEPT (dept no, dname, loc)**

**Answer the following queries in SQL**

**i)Find the employees working in the department 10, 20, 30 only**

* **Find employees whose names start with letter A or letter a**

**ii) Find employees along with their department name**

**iii) Find employees whose manager is KING!**

**iv) Find the employees who are working in smith's department**

* **Find the employees who get salary more than Allen's salary**

**v) Display employees who are getting maximum salary in each department**

**10)** **Consider following Hotel a tabase, primary keys are underlined**

* **Hotel( hotel\_no, name, type, price)**
* **room(room-no,hotel\_no.type,price)**
* **booking(hotel\_no guest\_no,date-from,date-to, room-to)**
* **guest(guest no,name, address)**

**Give an expression in SQL for each of the following queries**

**(1) List the names and addresses of all guests in London, alphabetically ordered by name.**

**(2) List out hotel name and total number of rooms available**

**(3) List the details of all the rooms at the Grosvenor Hotel, including the name of the guest staying in the room, if the room is occupied**

**(4) List all guests currently staying a the Grosvenor Hotel.**

**(5) List the rooms that are currently unoccupied at the Grosvenor Hotel**

**(6) List the number of rooms each hotel in London**

**(7) List out all guests who have booked room for three or more days**

**11)** **Consider following schema and sort SQL for given statements:**

* **employee(employee\_name, street, city)**
* **works (employee-name, company\_name, salary)**
* **Company (company-name, city)**
* **Manages( employee name, manager\_name)**

**(i) Find the names of all employees to work her first bank corporations**

**(2) Give all employees of first bank corporation a 10 percent raise**

**(3) Find the names and cities of residence of all employees who work for first bank corporation**

**(4) Find the names and street address cities of residence of employees who work for First bank corporation and earn more than 10000 dollars**

**(5) Find all employees in the database who live in the same cities as the companies for which they work**

**(6) Find all employees in the database who do not work for First Bank Corporation**

**(7) Find the names of all Find the company and number**